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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/506,607	09/10/2004	Minoru Tarumi	040460	8290
23850 7	590 04/21/2006		EXAMINER	
ARMSTRONG, KRATZ, QUINTOS, HANSON & BROOKS, LLP			FITZGERALD, JOHN P	
1725 K STREE SUITE 1000	ET, NW		ART UNIT	PAPER NUMBER
WASHINGTO	N, DC 20006		2856	<u> </u>

DATE MAILED: 04/21/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

•	Application No.	Applicant(s)	
	10/506,607	TARUMI, MINORU	ĮΨ
Office Action Summary	Examiner	Art Unit	_
	John P. Fitzgerald	2856	•
The MAILING DATE of this communication ap	_		,
Period for Reply			
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNIC 136(a). In no event, however, may a re will apply and will expire SIX (6) MON' e, cause the application to become AB.	CATION. ply be timely filed ITHS from the mailing date of this communicat ANDONED (35 U.S.C. § 133).	
Status	•		
1) Responsive to communication(s) filed on <u>02 F</u>	ebruary 2006.		
	s action is non-final.		
3) Since this application is in condition for allowa			is
closed in accordance with the practice under b	Ex parte Quayle, 1935 C.D.	. 11, 453 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>1-24</u> is/are pending in the application).		
4a) Of the above claim(s) 4,5 and 17-24 is/are		ion.	
5)⊠ Claim(s) <u>1-3 and 9</u> is/are allowed.			
6)⊠ Claim(s) <u>6-8 and 10-16</u> is/are rejected.	•		
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/o	or election requirement.		
Application Papers			
9) The specification is objected to by the Examine	er		
10)⊠ The drawing(s) filed on <u>10 September 2004</u> is/		objected to by the Examiner.	
Applicant may not request that any objection to the			
Replacement drawing sheet(s) including the correc			1(d).
11) The oath or declaration is objected to by the Ex	xaminer. Note the attached	Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12)☐ Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. §	119(a)-(d) or (f).	
a) All b) Some * c) None of: 1. Certified copies of the priority document	to have been received		
1. Certified copies of the priority document2. Certified copies of the priority document		onlication No	
3.⊠ Copies of the certified copies of the prior		· ·	
application from the International Burea	•	.00000 00	
* See the attached detailed Office action for a list		received.	
1			
Attachment(s)	"П	(DTO 442)	
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s	ummary (PTO-413))/Mail Date	•
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 9/10/04.) 5) ☐ Notice of Ir 6) ☐ Other:	formal Patent Application (PTO-152) 	

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DETAILED ACTION

Election/Restrictions

1. Claims 4, 5 and 17-24 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected species, there being no allowable generic or linking claim. Election was made without traverse in the reply filed on 02 February 2006.

2. Claim 1 is generic and allowable. Accordingly, the restriction requirement as to the encompassed species is hereby withdrawn and claims 10-16, directed to a non-elected species is no longer withdrawn from consideration since all of the claims to this species depend from or otherwise include each of the limitations of an allowed generic claim. However, claims 17-24, directed to the species of Fig. 14 remain withdrawn from consideration since they do not all depend upon or otherwise include all the limitations of an allowed generic claim as required by 37 CFR 1.141.

In view of the above noted withdrawal of the restriction requirement as to the linked species, applicant(s) are advised that if any claim(s) depending from or including all the limitations of the allowable generic linking claim(s) be presented in a continuation or divisional application, such claims may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application. Once a restriction requirement is withdrawn, the provisions of 35 U.S.C. 121 are no longer applicable. See *In re Ziegler*, 44 F.2d 1211, 1215, 170 USPQ 129, 131-32 (CCPA 1971). See also MPEP § 804.01.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. § 112:

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The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 6-8 and 10-16 are rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claims 6 and 7 recite the limitation "said/the traveling direction" in lines 4, respectively. Claim 6 also recites the limitation "said on-ground control unit." There is insufficient antecedent basis for these limitations in the claims. It appears that the applicant changed the dependency of the instant claims in a preliminary amendment and failed to check for antecedent basis problems. There are additional antecedent basis problems, and it is suggested by the Examiner that the Applicant perform a thorough review of the instant claims.

Allowable Subject Matter

- 5. Claims 1-3 and 9 are allowed over the Prior Art of record.
- 6. Claims 6-8 and 10-16 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. § 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.
- 7. Note that the indication of allowable subject matter is based upon the features which are presently found in the claims. In overcoming the above rejection, should applicants choose to delete features which are presently in the claims, this indication of allowable subject matter may no longer apply. The examiner therefore suggests that applicants overcome the above rejection under the second paragraph of 35 U.S.C. § 112 by amending the claims to replace the indefinite language with claim language which precisely and particularly defines the invention. The preferred way to correct the lack of antecedent problem or other types of similar problems that

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have been raised above would be to provide a clear antecedent basis for the feature rather than to delete the language. Deleting features which are presently in the claims broadens the scope of the claims and thus may render the indication of allowable subject matter no longer applicable.

Conclusion

- 8. Applicant is invited to review PTO form 892 accompanying this Office Action listing Prior Art relevant to the instant invention cited by the Examiner.
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John Fitzgerald whose telephone number is (571) 272-2843. The examiner can normally be reached on Monday-Friday from 7:00 AM to 3:30 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hezron Williams, can be reached on (571) 272-2208. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center

(EBC) at 866-217-9197 (toll-free).

MEZHUN WILLIAMS
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2000

04/17/2006